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Application No. (if known): 10/680988 Attorney Docket No.: 19240.593 US1

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Docket No.: 19240.593 US1
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Andrew R. Marks et al.	Confirmation No.:	6477
Application No.:	10/680988	Art Unit:	N/A
Filed:	October 7, 2003	Examiner:	Not Yet Assigned

Title: COMPOUNDS AND METHODS FOR TREATING AND PREVENTING EXERCISE-INDUCED CARDIAC ARRHYTHMIAS

MS Amendment
Commissioner for Patents
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (SIDS)

Dear Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicants bring to the attention of the Examiner the documents listed on the attached Form PTO SB-08. Copies of the documents listed are not submitted herewith. These documents were previously cited by or submitted to the United States Patent and Trademark Office in U.S. Patent Application No. 10/288,606, filed November 5, 2002, and U.S. Patent Application No. 10/608,723, filed June 26, 2003, and are relied upon in this application for an earlier filing date under 35 U.S.C. 120.

This Information Disclosure Statement is being filed prior to the mailing date of a first Office Action on the merits. No certification or fee is believed to be due. If, however, a fee is due, please charge our Deposit Account No. 08-0219. Applicants request that the Examiner initial and return a copy of the enclosed Form PTO SB-08 with the next communication.

Respectfully submitted,

Dated: 8/8/06

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Sheet 1 of 10

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Application Number	10/680988-Conf. #6477
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First Named Inventor	Andrew R. Marks
Art Unit	N/A
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Attorney Docket Number	19240.593 US1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-4,990,707	02-05-1991	Mais et al.	
	AB*	US-5,221,681	06-22-1993	Kabbe et al.	
	AC*	US-5,461,047	10-24-1995	Donald W. Hansen	
	AD*	US-5,580,866	12-03-1996	Housley et al.	
	AE*	US-6,506,745	01-14-2003	Aisaka et al.	
	AF*	US-10/763,498	01-22-2004	Marks et al.	
	AG*	US-20040173802	09-09-2004	Yukimoto	
	AH*	US-20040224368-A1	11-11-2004	Marks	
	AI*	US-20040229781-A1	11-18-2004	Marks et al.	
	AJ*	US-20050215540-A1	09-29-2005	Marks et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	BA*	JP-3093419	04-18-1991	Mitsubishi Cable Ind Ltd.		
	BB*	JP-05/271208	10-19-1993	Kirin Brewery Co Ltd.		
	BC*	WO-94/29286	12-22-1994	G.D. Searle & Co.		
	BD*	WO-98/05657	02-12-1998	Knoll Aktiengesellschaft		
	BE*	WO-99/26921	06-03-1999	Merck & Co., Inc.		
	BF*	WO-99/32115	07-01-1999	The University of the West Indies		
	BG*	WO-01/00185	01-04-2001	Knoll Aktiengesellschaft		
	BH*	WO-02/053548	07-11-2002	Banyu Pharmaceutical Co. Ltd.		
	BI*	WO-04/022057	03-18-2004	Aventis Pharma Deutschland GMBH		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	CA	Bezprozvanny, I. et al. "Bell-shaped Calcium Response Curves of Ins (1,4,5) P_3- and Calcium-gated Channels from Endoplasic Reticulum of Cerebellum." Nature, Vol. 351, pp. 751-754. (1991).	
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	CC	Bristow, Michael R. et al. "*B*-Adrenergic Neuroeffector Abnormalities in the Failing Human	

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Sheet 2 of 10

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Art Unit	N/A
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Attorney Docket Number	19240.593 US1

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	CD	Chidsey et al. "Augmentation of Plasma Nor-epinephrine Response to Exercise in Patients with Congestive Heart Failure." N. Engl. J. Med. Vol. 267, No. 13, pp. 650-654. (1962).	
	CE	Chugh et al. "Epidemiology and Natural History of Atrial Fibrillation: Clinical Implications." J. Am. Coll. Cardiol., Vol. 37, No.2, pp. 371-378. (2001).	
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	CH	Dodge K.L., et al. "mAKAP Assembles a Protein Kinase A/PDE4 Phosphodiesterase cAMP Signaling Module." EMBO J. Vol. 20, No. 8, pp. 1921-1930. (2001).	
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	CJ	Falk, R.H. "Atrial Fibrillation." N. Engl. J. Med., Vol. 344, No. 14, pp. 1067-1078. (2001).	
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	CL	Franzen, P. et al. "Cloning of a TGFβ Type I Receptor That Forms a Heteromeric Complex with the TGF beta type II receptor." Cell, Vol. 75, pp. 681-692. (1993).	
	CM	Fraser, I.D. et al. "Modulation of Ion Channels: a "current" view of AKAPs." Neuron, Vol. 23, pp. 423-426. (1999).	
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	CV	Hachida et al. "Protective effect of JTV519 on Prolonged Myocardial Preservation." Transplant Proc., Vol. 31, pp. 1094. (1999).	
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Sheet 3 of 10

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First Named Inventor	Andrew R. Marks
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	19240.593 US1

		Complex With FKBP12." Cell, Vol. 96, pp. 425-436. (1999).	
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Sheet	4	of	10	Attorney Docket Number	19240.593 US1

		Failure." Eur. Heart J, 15 Suppl. D: pp. 7-13. (1994).	
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Examiner Signature		Date Considered	

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		No. 25, pp. 3342-3346. (2005).	
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	CE3	Dun et al. "Chronic Atrial Fibrillation Does Not Further Decrease Outward Currents. It Increases Them." Am. J. Physiol. Heart Circ. Physiol., Vol. 285, pp. H1378-1384. (2003).	
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	CH3	Hara et al., "Steady-state and nonsteady State Action Potentials in Fibrillating Canine Atrium: Abnormal Rate Adaption and Its Possible Mechanisms." Cardiovasc. Res., Vol. 42, pp. 455-469. (1999).	
	CI3	Harrington, D. et al. "Mechanisms of Exercise Intolerance in Congestive Heart Failure." Current Opinion in Cardiology, Vol. 12, No. 3, pp. 224-32. (1997).	
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First Named Inventor	Andrew R. Marks
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Attorney Docket Number	19240.593 US1

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	CQ3	Lamb et al., "Effects of FK506 and Rapamycin on Excitation-Contraction Coupling in Skeletal Muscle Fibres of the Rat." J Phys, Vol. 494, No.2, pp. 569-576. (1996).	
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	CS3	Lunde et al., "Contraction and Intracellular Ca2+ Handling in Isolated Skeletal Muscle of Rats with Congestive Heart Failure." Circ. Res., Vol. 88, pp. 1299-1305. (2001).	
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	CV3	Meissner, G., "Ryanodine Receptor/Ca^{2+} Release Channels and Their Regulation by Endogenous Effectors." Annu. Rev. Physiol., Vol. 56, pp. 485-508. (1994).	
	CW3	Minotti et al., "Impaired Skeletal Muscle Function in Patients with Congestive Heart Failure. Relationship to Systemic Excercise Performance." J. Clin. Invest., Vol. 88, pp. 2077-2082. (1991).	
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	CZ3	Rios et al., "Involvement of Dihydropyridine Receptors in Excitation-Contraction Coupling in Skeletal Muscle." Nature, Vol. 325, pp. 717-720. (1987).	
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	CE4	Shou, W. et al. "Cardiac Defects and Altered Ryanodine Receptor Function in Mice Lacking FKBP12." Nature, Vol. 391, pp. 489-492. (1998).	
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	CK4	Tanabe, T. et al., "Regions of the Skeletal Muscle Dihydropyridine Receptor Critical for Excitation-Contraction Coupling." Nature, Vol. 346, pp. 567-569. (1990).	
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	CR4	Isselbacher, Kurt J. et al. "Harrison's Principles of Internal Medicine." 13th Edition, Vol. 1, pp. 1022-1024. (1994).	
	CS4	Bristow et al., "Carvedilol Produces Dose-Related Improvements in left Ventricular Function and Survival in Subjects with Chronic Heart Failure." Circulation, Vol. 94, pp. 2807-2816. (1996).	
	CT4	Cheng, H. et al., "Amplitude Distribution of Calcium Sparks in Confocal Images: Theory and Studies with an Automatic Detection Method." Biophys J., Vol. 76, pp. 606-617. (1999).	
	CU4	Hain, J. et al., "Phosphorylation Modulates the Function of the Calcium Release Channel of Sarcoplasmic Reticulum from Skeletal Muscle." Biophys. J. 67, pp. 1823-1833. (1994).	
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	CW4	Reiken et al., "Defective Skeletal Muscle Calcium Release Channel Function during Heart Failure." Circulation, Vol. 106, No. 19 Supplement, pp. II-225. (2002).	
	CX4	Kaneko et al., "Inhibition of Annexin V-dependent Ca2 Movement in Large Unilamellar Vesicles by K201, a New." Biochimica et Biophysica Acta, Vol. 1330, pp. 1-7. (1997).	
	CY4	Kaneko et al., "Crystal Structure of Annexin V with Its Ligand K-201 as a Calcium Channel Activity Inhibitor." Journal of Molecular Biology, Vol. 274, pp. 16-20. (1997).	
	CZ4	Hachida et al. "Significant Effect of 1,4-Benzothiazepine Derivative (K2) in Improving Myocardial Preservation." Transplantation Proceedings, Vol. 29, pp. 1346-1348. (1997).	
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	CC5	Wehrens et al., "Protection from Cardiac Arrhythmia Through Ryanodine Receptor-Stabilizing Protein Calstabin2." Science, Vol. 304, pp. 292-296. (April 2004).	
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	CH5	Lisy et al., "New Cardioprotective Agent K201 is Natriuretic and Glomerular Filtration Rate Enhancing." Circulation, Vol. 113, pp. 246-251. (2006).	
	CI5	Yano et al., "RyR-Bound FKBP12.6 and the Modulation." Journal Clinical Calcium, Vol. 11, No. 6, pp. 743-748. (June 11, 2001).	
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	CQ5	Meurs, K.M. et al., "A Cardiac Myosin Binding Protein C Mutation in the Maine Coon Cat with Familial Hypertrophic Cardiomyopathy." Hum Mol Genet, Vol. 14, No. 23, pp. 3587-3593. (2005).	
	CR5	Miller, K.B., "Manganese Alters Mitochodrial Integrity in the Hearts of Swine Marginally Deficient in Magnesium." Biofactors, Vol. 20, No. 2, pp. 85-96. (2004).	
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	CT5	Moise, N.S., "Inherited Arrhythmias in the Dog: Potential Experimental Models of Cardiac Disease." Cardiovasc Res, Vol. 44, No. 1, pp. 37-46. (1999).	
	CU5	Nakamura, Y. et al., "Parasitic Females of Strongyloides Papillosus as a Pathogenetic Stage for Sudden Cardiac Death in Infected Lambs." J. Vet Med. Sci., Vol. 56, No. 4, pp. 723-727. (1994).	
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	CB6	Meurs, KM. "Boxer Dog Cardiomyopathy: An Update." Vet Clin North Am Small Anim Pract., Vol. 34, pp. 1235-1244. (2004).	
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